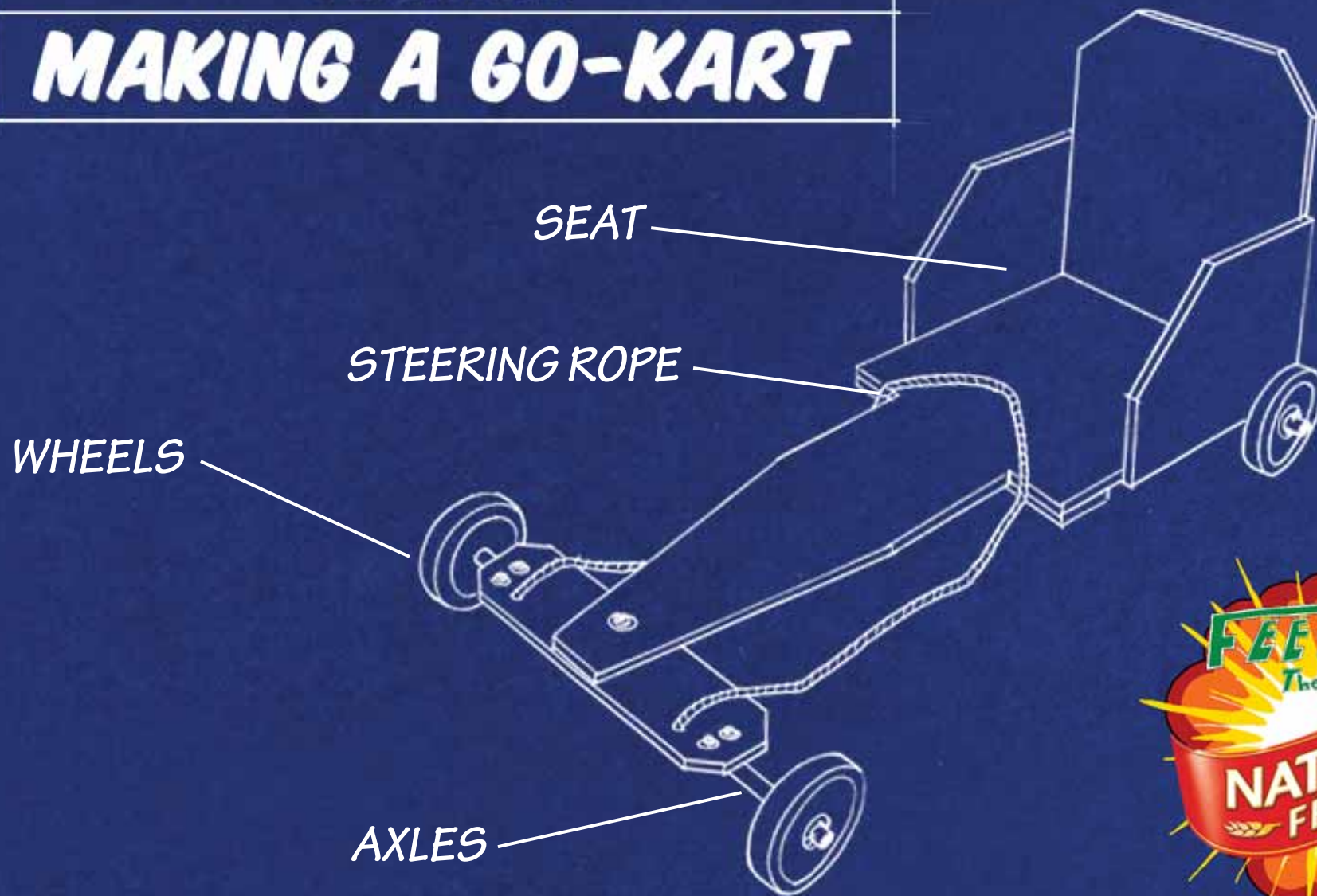


# PLANS FOR MAKING A GO-KART



# MATERIALS LIST

## THINGS YOU'LL NEED FOR A GO-KART

- 1/3 OF A SHEET OF PLYWOOD – 17MM (CONSTRUCTION PLY)
- 4 X U-BOLTS AND NUTS
- 1/2 INCH OR 12.5MM ROUND BAR – FOR AXLES (MAKE SURE THE WHEELS WILL FIT)
- 40/38MM X 8G WOOD SCREWS
- 1 BOLT 75MM X 15MM LONG + 2 X 15MM NUTS
- 4 X 15MM FLAT WASHERS
- 4 TROLLEY OR CART WHEELS (8 INCHES/200MM DIAM.)
- 4 X 3/16 OR 3MM SPLIT PINS
- 12MM ROPE X 1500MM LONG
- 8 X 12MM WASHERS (FOR THE WHEELS)

TIP: IT'S EASIER IF YOU CAN FIND THE WHEELS COMPLETE WITH AXLES (I.E. FROM AN OLD PRAM).  
YOU CAN ALSO MAKE THIS KART OUT OF STUFF YOU FIND, BUT THESE MATERIALS ARE WHAT WE SUGGEST.

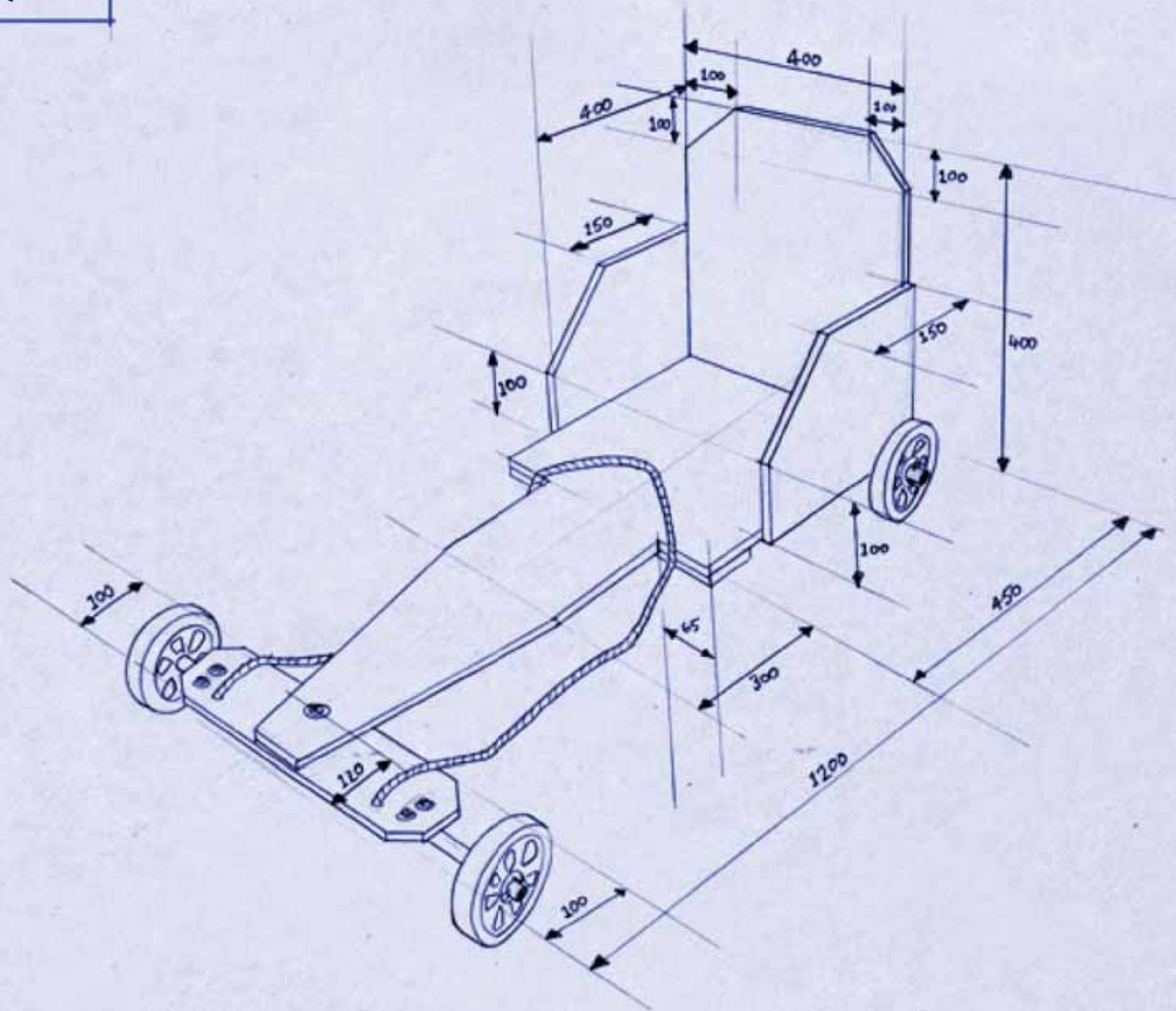
THE BEST PLACES TO  
GET THESE FROM ARE:

ANY HARDWARE STORE OR  
CAR PARTS/SUPPLY STORE.  
YOU MAY BE LUCKY ENOUGH  
TO FIND THE AXLES OR THEY  
MAY HAVE TO BE MADE UP!

WHEN DOING THIS PROJECT IT'S BEST TO HAVE AN ADULT AROUND, ESPECIALLY WHEN USING TOOLS.  
BETTER YET, GET THEM TO DO THE HARD STUFF SO YOU DON'T HAVE TO.



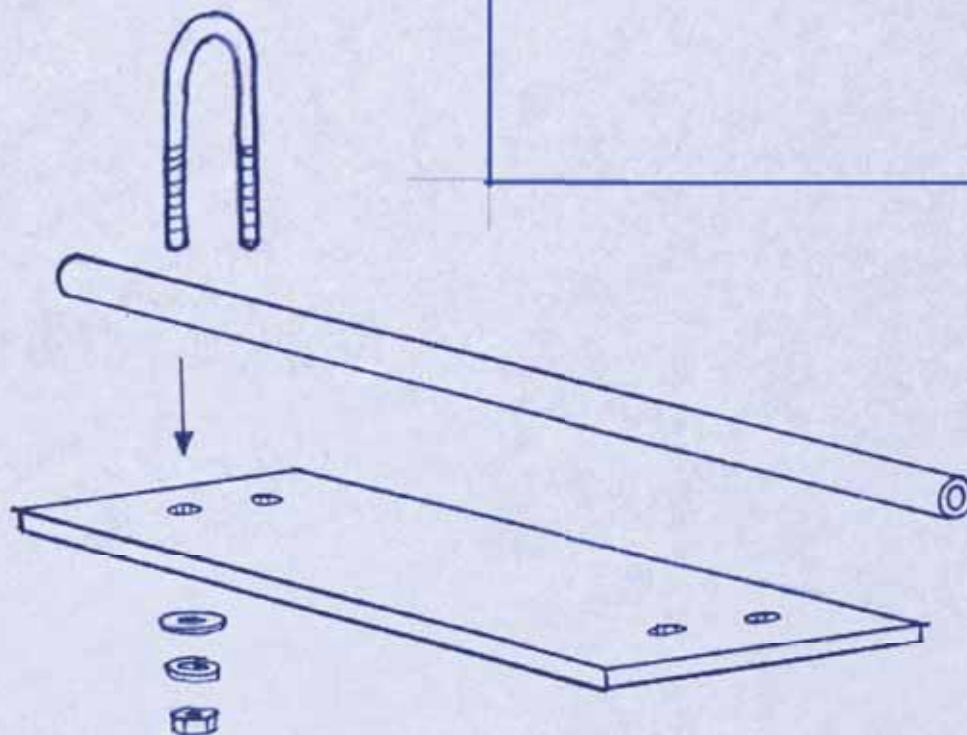
# DIAGRAM



## STEP 1

## FRONT WHEELS

- CUT A LENGTH OF ~20 MM THICK WOOD A BIT SHORTER THAN THE LENGTH OF THE AXLE (SO THERE'S ENOUGH AXLE OVER THE EDGES TO MOUNT THE WHEELS). MAKE SURE THE WOOD'S WIDE ENOUGH TO MOUNT THE AXLE AND ALLOW A HOLE TO BE DRILLED FOR THE NUT AND BOLT PIVOT NEXT TO IT
- ATTACH THE AXLE TO THE WOOD USING "U" BOLTS
- REMEMBER YOU HAVE TO GET THE CENTRE NUT AND BOLT THROUGH, SO THE AXLE WILL HAVE TO BE MOUNTED FORWARD OF THE CENTRELINE OF THE WOOD. DRILL A HOLE LARGE ENOUGH TO FIT YOUR BOLT THROUGH IN THE CENTRE OF THE WOOD



## STEP 2

## BACK WHEELS

- USE THE SAME METHOD AS THE FRONT WHEELS BUT MOUNT THE AXLE IN THE CENTRE OF THE WOOD THIS TIME FOR MAXIMUM STRENGTH. YOU DON'T NEED PIVOT HOLES THIS TIME



### STEP 3

### MAIN BOARD

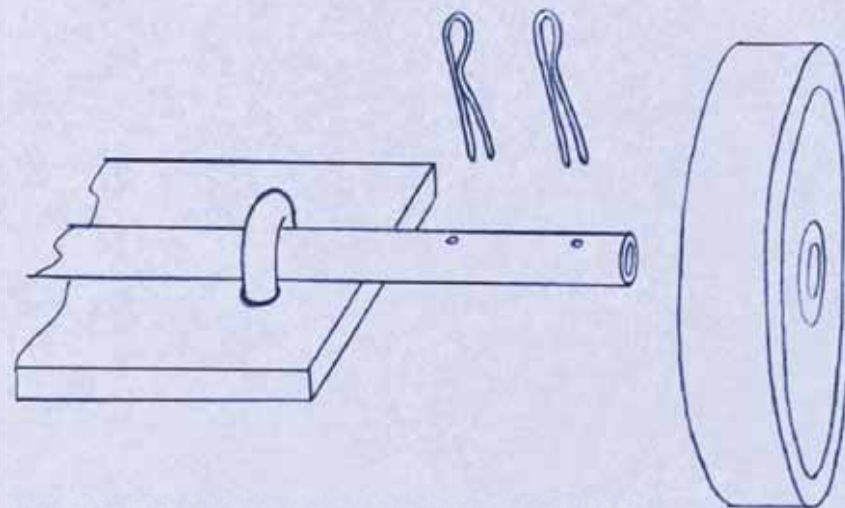
- CUT LENGTH OF BOARD ABOUT 1.5 X THE LENGTH OF YOUR LEGS. MAKE IT NARROW ENOUGH AT THE FRONT TO ALLOW THE FRONT WHEELS TO TURN WITH YOUR FEET ON THEM
- MARK OUT THE CENTRE LINE OF THE BOARD TO DRILL THE PIVOT HOLE FOR THE STEERING
- POSITION THE FRONT WHEELS UNDER THE PLANK AND GET THEM FAR ENOUGH BACK SO THAT THE FRONT OF THE BOARD STICKS OUT A BIT IN FRONT THE WHEELS. SO IF YOU CRASH, YOUR WHEELS DON'T GET WRECKED. MARK THE HOLE FOR THE CENTRE, THEN DRILL

(SEE STEP 5 FOR DIAGRAM)

### STEP 4

### MOUNT FRONT WHEELS

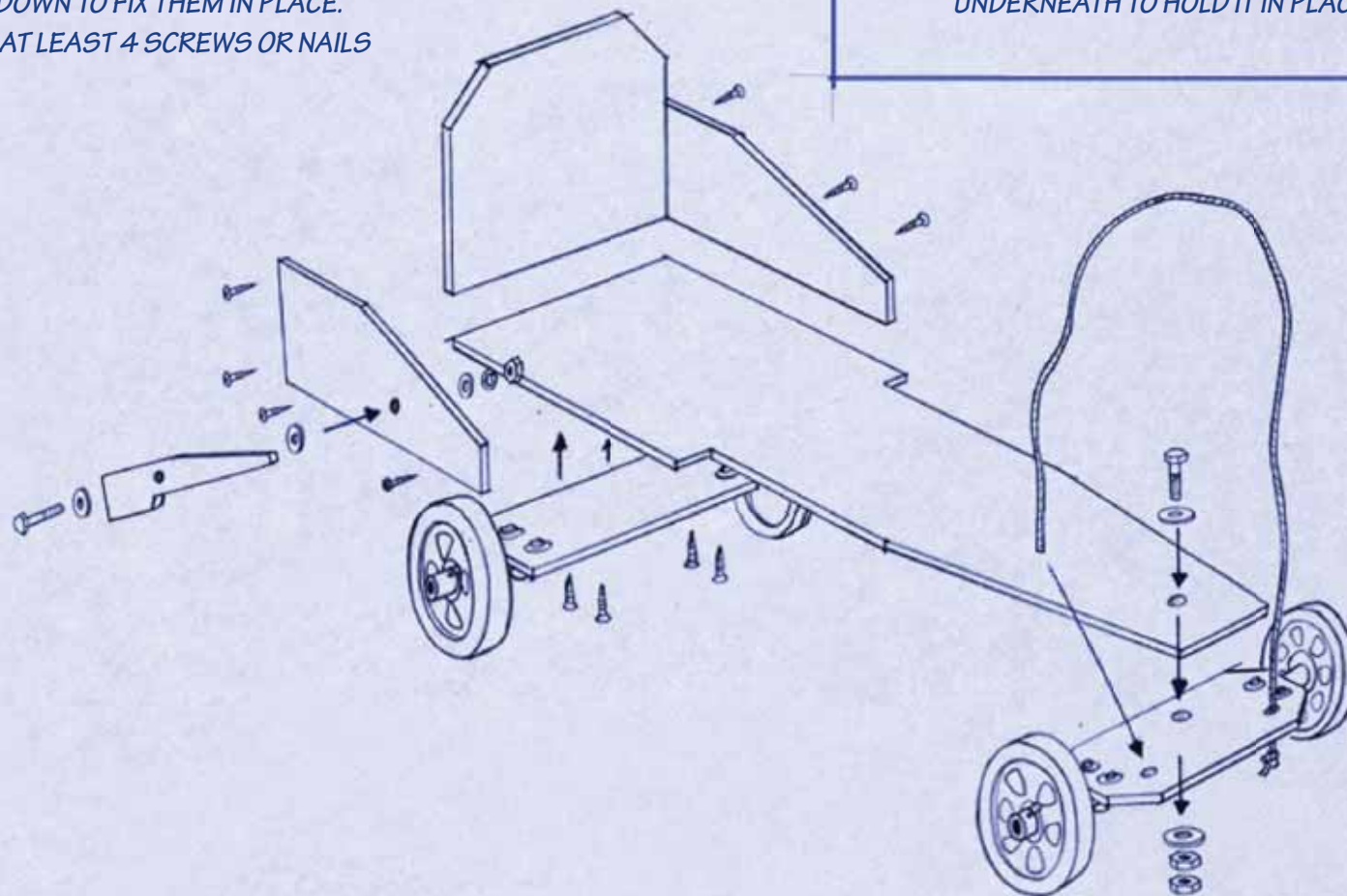
- THE FRONT WHEELS WILL BE MOUNTED USING THE BOLT DOWN THROUGH THE TOP (WITH A WASHER). PLACE A WASHER ON THE BOTTOM THEN SCREW UP YOUR 2 NUTS, BUT NOT TOO TIGHT. ALLOW THE STEERING TO WORK SMOOTHLY
- USING 2 SPANNERS, (PLACED ON THE NUTS NOT THE BOLT), TIGHTEN THE NUTS AGAINST EACH OTHER. THIS IS ESSENTIAL IF YOU WANT THE FRONT WHEELS TO STAY ON
- DRILL TWO SMALL HOLES IN THE AXLE TO HOLD EACH WHEEL WITH SPLIT PINS



## STEP 5

## MOUNT BACK WHEELS

- POSITION THE REAR WHEELS AT THE VERY BACK OF THE WOODEN PLANK. CENTRE THEM THEN SCREW OR NAIL FROM THE TOP DOWN TO FIX THEM IN PLACE. USE AT LEAST 4 SCREWS OR NAILS



## STEP 6

## STEERING ROPE

- ATTACH ROPE TO THE OUTER SIDES OF THE FRONT WHEELS JUST EITHER SIDE OF YOUR FEET POSITION. IT IS BEST TO DRILL HOLES FOR IT IN FRONT OF THE WHEELS, THEN JUST KNOT THE ROPE UNDERNEATH TO HOLD IT IN PLACE



## STEP 7

## HANDBRAKE

- USE AN OFF-CUT OF WOOD AT LEAST 300MM LONG AND MOUNT IT ON THE SIDE OF THE KART WITH ONE BOLT SO IT CAN PIVOT. MAKE SURE THE REAR OF THE WOOD CAN PUSH AGAINST THE TOP OF THE WHEEL WHEN YOU PULL UP ON THE HANDLE. THE PIVOT SHOULD BE CLOSER TO THE WHEEL FOR BETTER LEVERAGE

HINT: TRY ADDING DIFFERENT MATERIALS TO THE PART THAT TOUCHES THE WHEEL FOR BETTER BRAKING

## STEP 8

## SANDPAPER

- FINALLY RUN SOME SAND PAPER OVER THE WOOD TO SMOOTH AND MAKE SURE THERE ARE NO SHARP BITS OR SPLINTER HAZARDS

